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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/712,289	11/13/2003	Samuel H. Russ	A-8753	9338	
5642 7590 09/04/2007 SCIENTIFIC-ATLANTA, INC.			EXAM	INER	
INTELLECTU	AL PROPERTY DEPART	MENT	SCHNUR	₹, JOHN R	
	OAF PARKWAY /ILLE, GA 30044		ART UNIT	PAPER NUMBER	
Dirite ite	Environica vibba, Grisovii			2623	
			NOTIFICATION DATE	DELIVERY MODE	
			09/04/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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PTOmail@sciatl.com

	Application No.	Applicant(s)				
Office Action Summary	10/712,289	RUSS ET AL.				
Onice Action Summary	Examiner	Art Unit				
	John R. Schnurr	2623				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet w	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become A	ICATION. I reply be timely filed PNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13 A	November 2003.					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application	١.					
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-15</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on 23 February 2004 is/ar	[.] e: a) <u>□</u> accepted or b)⊠	objected to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	·					
11) The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:		§ 119(a)-(d) or (f).				
1. Certified copies of the priority documen						
2. Certified copies of the priority document		· ·				
 Copies of the certified copies of the price application from the International Burea 	•	received in this National Stage				
* See the attached detailed Office action for a list		t received				
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Attachment(s)	».□····	O (DTO .440)				
1) Motice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) (s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 07/29/2004, 11/13/2003.		Informal Patent Application				

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DETAILED ACTION

This Office Action is in response to Application No. 10/712,289 filed 11/13/2003.
 Claims 1-15 are pending and have been examined.

2. The information disclosure statements (IDS) submitted on 07/29/2004, 11/13/2003 and 11/13/2003 were considered by the examiner.

Drawings

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "350" has been used to designate both a remote communications device and an upconverter. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Schupak (US Patent 6,069,621) in view of Calderone (US Patent 6,588,017).

Consider **claim 1**, Schupak clearly teaches a local network system, **(Fig. 5)** comprising:

a satellite receiving device for receiving satellite signals from at least one transponder; (Fig. 2: The system 12 receives satellite signals at terminal 1, column 3 lines 9-17.)

a primary DHCT for receiving the satellite signals from the satellite receiving device, (Fig. 1: Computer 2 receives the satellite signals, column 2 lines 61-64.) and for selectively storing presentations included in the satellite signals, (Fig. 2: Mass storage unit 19 stores the signals, column 3 lines 30-32.) the primary DHCT comprising:

a storage device for storing the at least one presentation; (Fig. 2 Mass storage unit 19)

a plurality of remote devices coupled to the primary DHCT, (Fig. 5 Television receivers 45a-45c) each remote device for receiving the satellite signals and for receiving the modulated signals from the primary DHCT. (column 4 lines 48-60)

However, Schupak does not explicitly teach the primary DHCT comprising a modulator for modulating to a predetermined frequency, and for providing the modulated signals.

In an analogous art Calderone, which discloses a system for providing digital video using master and slave set-top boxes, clearly teaches a modulator for modulating to a predetermined frequency, and for providing the modulated signals. (Fig. 1: RF modem 132 modulates the bit stream being sent to the slave device, column 5 lines 51-57.)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Schupak by modulating the stored presentation to a predetermined frequency before transferring it to the remote device, as taught by Calderone, for the benefit of preventing interference with other signals (column 5 line 64 to column 6 line 3 Calderone).

Consider claim 12, Schupak combined with Calderone, as in claim 1, clearly teaches the plurality of remote devices communicates with the primary DHCT by transmitting at least one reverse command signal. (column 4 lines 61-67 Schupak)

6. Claims 2-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schupak (US Patent 6,069,621) in view of Calderone (US Patent 6,588,017) as applied to claim 1 above, and further in view of Gurantz et al. (US Patent 7,130,576), herein Gurantz.

Consider **claim 2**, Schupak combined with Calderone, as in claim 1, clearly teaches modulating the stored presentation before transfer to the remote device.

However, Schupak combined with Calderone, as in claim 1, does not explicitly teach the modulator is a QPSK modulator.

In an analogous art Gurantz, which discloses a system for distributing satellite signals to multiple set-top devices, clearly teaches the dominant modulation type in satellite systems is QPSK. (column 11 lines 54-55)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Schupak combined with Calderone, as in claim 1, by modulating the stored presentation using QPSK, as taught by Gurantz, because the use of QPSK modulation would have yielded predictable results.

Consider claim 3, Schupak combined with Calderone, as in claim 1, clearly teaches a switch receiving the satellite signals. (Fig. 2 Switch 18 Schupak) Schupak combined with Calderone, as in claim 1, further teach modulating the stored presentation so as to be distinguishable from the digital programming signals. (column 5 line 64 to column 6 line 3 Calderone)

However, Schupak combined with Calderone, as in claim 1, does not explicitly teach the switch having first and second polarizations.

In an analogous art Gurantz, which discloses a system for distributing satellite signals to multiple set-top devices, clearly teaches a switch for providing a first or second polarization. (column 1 lines 44-54)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Schupak combined with

Calderone, as in claim 1, by utilizing a switch having first and second polarizations, as taught by Gurantz, for the benefit of receiving all of the data transmitted by the satellite.

Consider claim 4, Schupak combined with Calderone and Gurantz, as in claim 3, clearly teaches the modulator assigns the third polarization to the at least one stored presentation. (column 5 line 64 to column 6 line 3 Calderone)

Consider claim 5, Schupak combined with Calderone and Gurantz, as in claim 3, clearly teaches a switch for receiving the satellite signals from the satellite receiving device, (Fig. 2 Switch 18 Schupak) the satellite signals having a polarization, (column 1 lines 44-54 Gurantz) and for providing the satellite signals to at least one of the primary DHCT and the plurality of remote devices, (Fig. 1: Computer 2 receives the satellite signals, column 2 lines 61-64.) and for receiving the modulated signals from the primary DHCT (Fig. 1: RF modem 132 modulates the bit stream being sent to the slave device, column 5 lines 51-57, Calderone.) and for providing the modulated signals to the plurality of remote devices. (column 4 lines 48-60 Schupak)

Consider claim 6, see claim 4.

Consider claim 11, Schupak combined with Calderone and Gurantz, as in claim 3, clearly teaches the switching function residing in the primary DHCT. (Fig. 2 Schupak)

Consider claim 7, Schupak combined with Calderone, as in claim 1, clearly teaches the modulated signals are transmitted in the predetermined frequency that is excluded from the plurality of downstream frequency ranges. (column 5 line 64 to column 6 line 3 Calderone)

However, Schupak combined with Calderone, as in claim 1, does not explicitly teach the satellite signals are transmitted in a plurality of downstream frequency ranges.

In an analogous art Gurantz, which discloses a system for distributing satellite signals to multiple set-top devices, clearly teaches the satellite signals are transmitted in a plurality of downstream frequency ranges. (column 1 lines 49-54)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Schupak combined with Calderone, as in claim 1, by transmitting the satellite signals in a plurality of downstream frequency ranges, as taught by Gurantz, for the benefit of providing multiple channels.

Consider claim 8, Schupak combined with Calderone, as in claim 1, clearly teaches a switch for receiving the satellite and the modulated signals, (Fig. 2 Switch 18 Schupak) and wherein the modulated signals are transmitted in the predetermined frequency (the modulated signals maybe several hundred MHz, column 5 line 64 to column 6 line 3 Calderone) wherein one of the satellite signals and the modulated signals are selected by a switching function. (Fig. 2 Switch 18 Schupak)

However, Schupak combined with Calderone, as in claim 1, does not explicitly teach the satellite signals are transmitted in a plurality of downstream frequency ranges and the modulated signals are transmitted in the downstream frequency range.

In an analogous art Gurantz, which discloses a system for distributing satellite signals to multiple set-top devices, clearly teaches the satellite signals are transmitted in a plurality of downstream frequency ranges. (column 1 lines 49-54)

Gurantz further teaches the modulated signals are transmitted in the downstream frequency range. (The downstream frequencies are 950-1450 MHz, column 1 lines 33-37 Gurantz)

See claim 7 for motivation.

Consider claim 9, Schupak combined with Calderone and Gurantz, as in claim 8, clearly teaches the switching function resides in a separate external unit. (Fig. 1 Multi port switch 160 Gurantz)

Consider claim 10, Schupak combined with Calderone and Gurantz, as in claim 8, clearly teaches external unit is incorporated in an LNB. (Fig. 1 Satellite outdoor unit 110 Gurantz)

7. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Schupak (US Patent 6,069,621) in view of Gurantz et al. (US Patent 7,130,576).

Consider **claim 13**, Schupak clearly teaches a satellite communication system, comprising:

a satellite receiver for receiving and processing the downstream satellite signals; (Fig. 2: The system 12 receives satellite signals at terminal 1, column 3 lines 9-17.)

a switch for receiving the processed satellite signals. (Fig. 2 Switch 18)

a primary DHCT coupled to the switch for receiving the processed satellite signals, (Fig. 1: Computer 2 receives the satellite signals, column 2 lines 61-64.) and for storing and subsequently transmitting desired satellite signals; (column 4 lines 48-60)

at least one remote device coupled to the switch, (Fig. 5 Television receivers 45a-45c) the at least one remote device in communication with the primary DHCT, the at least one remote device for receiving the processed satellite signals, and for receiving the stored desired satellite signals from the primary DHCT via the switch. (column 4 lines 48-60)

However, Schupak does not explicitly teach providing the processed satellite signals according to a frequency and a polarization.

In an analogous art Gurantz, which discloses a system for distributing satellite signals to multiple set-top devices, clearly teaches providing the processed satellite signals according to a frequency and a polarization. (column 1 lines 44-54)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Schupak combined with Calderone, as in claim 1, by utilizing a switch having first and second polarizations, as taught by Gurantz, for the benefit of receiving all of the data transmitted by the satellite.

8. Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schupak (US Patent 6,069,621) in view of Gurantz et al. (US Patent 7,130,576)as applied to claim 13 above, and further in view of Calderone (US Patent 6,588,017).

Consider **claim 14**, Schupak combined with Gurantz, as in claim 13, clearly teaches providing the processed satellite signals according to a frequency and a polarization. **(column 1 lines 44-54)**

However, Schupak combined with Gurantz, as in claim 13, does not explicitly teach the primary DHCT comprising a modulator for modulating to a predetermined frequency, and for providing the modulated signals.

In an analogous art Calderone, which discloses a system for providing digital video using master and slave set-top boxes, clearly teaches a modulator for modulating to a predetermined frequency, and for providing the modulated signals. (Fig. 1: RF modem 132 modulates the bit stream being sent to the slave device, column 5 lines 51-57.)

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Schupak combined with Gurantz, as in claim 13, by modulating the stored presentation to a predetermined frequency before transferring it to the remote device, as taught by Calderone, for the benefit of preventing interference with other signals (column 5 line 64 to column 6 line 3 Calderone).

Consider claim 15, Schupak combined with Gurantz and Calderone, as in claim 14, clearly teaches the predetermined frequency having a polarization is excluded from the plurality of frequencies having a polarization of the downstream satellite signals. (column 5 line 64 to column 6 line 3 Calderone)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John R. Schnurr whose telephone number is (571) 270-1458. The examiner can normally be reached on Monday - Friday, 7:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Grant can be reached on (571) 272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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JRS

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